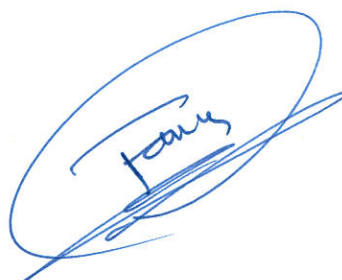


Course Specification

I. Course Identification and General Information:					
1	Course Title:	Master thesis			
2	Course Code & Number:	MCCN07			
3	Credit hours: 6	C.H			TOTAL
		Th.	Seminar	Pr	
		-	-	6	-
4	Study level/ semester at which this course is offered:	Second year/ first and Second semester			
5	Pre –requisite:	-			
6	Co –requisite :	-			
7	Program (s) in which the course is offered:	Critical care nursing			
8	Language of teaching the course:	English			
9	Location of teaching the course:	Faculty of Nursing			
10	Prepared By:	Prof. Nabil Al-Rabeei			
11	Date of Approval	2022			

II. Course Description:

Research project allows the students to practically implement the theoretical knowledge as a small research study.



III. Intended learning outcomes of the course (ILCOs) and their alignment to Program Intended learning outcomes (PILOs)

ILCOs		PILOs
1. Prepare and submit Master Thesis and apply presentation.		C6
(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Not applicable	-	-
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Not applicable	-	-

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Prepare and submit Master Thesis and apply presentation.	Students Presentation Committee member decision	Quality of research project include: <ul style="list-style-type: none"> • Introduction and objectives • Literature review • Research methodology • Results • Discussion, conclusion and recommendations • References • Presentation

(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Not applicable	-	-

IV. General format of master thesis

Order	Topics List	Week Due	Contact Hours
	<p>A written format of a research work is known as thesis. All such works may differ considerably in scope of treatment and details of presentation. Even then all types of research reports are expected to follow a general uniform, common pattern of format, style and structure. The general format of research report is evolved and it has become a tradition in academic area. It is viewed as he following:</p> <p>A. Preliminary Section</p> <ul style="list-style-type: none"> • <i>Title of the Study</i> • <i>Certification</i> • <i>Acknowledgment</i> • <i>Dedication</i> • <i>List of Tables</i> • <i>List of Figures</i> • <i>Abbreviations</i> • <i>Terminology definition</i> • <i>Abstract</i> <p>B. Main Body of Report</p> <p>Chapter 1: Introduction</p> <p>1.1 Background of the Study 1.2 Problem statement 1.3. Rationale of the Study</p> <p>Chapter 2: Literature Review</p> <p>2.1 Review of relevant theoretical literature 2.2 Review of relevant empirical literature</p> <p>Chapter 3: Objectives of the study</p> <p>3.1 General Objective 3.2 Spesific objectives</p> <p>Chapter 4: Research Methodology</p> <p>4.1 Study Setting 4.2 Study Desgin 4.3 Population and sample of the study</p>	-	-

<p>4.4 Inclusion and exclusion criteria 4.5 Sample Size 4.6 Sampling Methods 4.7 Data collection technique and Instrument 4.8 Pilot study 4.9 Data processing and analysis 4.10 Ethical Considerations Chapter 5: Results 5.1 Description of data analysis 5.2 Interpretation and presentation of results Chapter 6: Discussion 6.1 Presentation of major findings 6.2 Identification of limitations 6.3 Discussion of the implications Chapter 7: Conclusions and Recommendations 7.1 Identification of Conclusion 7.2 Recommendations for further research References Appendices</p>		
Number of Weeks /and Units Per Semester		

B- Practical Aspect: (if any)			
Order	Topics List	Week Due	Contact Hours
1	Research process : 1. Formulating the Research Problem 2. Reviewing the literature 3. Formulating the research objectives/ hypothesis 4. Selection the research design 5. Data collection 6. Data analysis 7. Data interpretation 8. Preparation and presentation of the research report	16	48
Number of Weeks /and Units Per Semester		16	48

III. Teaching strategies of the course:

1. Field work and training by supervisor.
2. Students presentation
3. Committee member decision

V. Master thesis assessment

Each master thesis will be assessed by a committee of three members as follows

Items

Committee member decision

I. Learning Resources:

1- Required Textbook(s) (maximum two).

1. Health Research Methodology (2005). WHO Manual.
2. Kothari C.R. (2004). Research Methodology, 2nd Edt. New Age International Pub.

2- Essential References.


1. Fox dewed J (2000). Textbook of fundamental of research in nursing. Appleton century goft Norwalk Connecticut 2000.

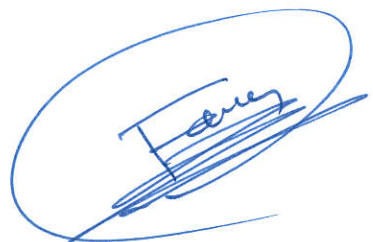
3- Electronic Materials and Web Sites etc.

1. www.google.com

II. Course Policies:

According to graduate study roles and regulation



A handwritten signature in blue ink, appearing to read "T. King", is enclosed within a blue oval. The signature is written in a cursive style with some overlapping strokes.

IX. Course Policies:	
1.	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5.	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6.	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

Courses specification 1st year 2nd semester

Course Specification

1. Course Identification and General Information:					
1	Course Title:	Medical Technology			
2	Course Code & Number:	MCCN01			
3	Credit hours: 3	C.H			TOTAL
		Th.	Seminar	Pr	
		2	-	1	3

4	Study level/ semester at which this course is offered:	First year/ Second semester
5	Pre –requisite:	-
6	Co –requisite :	-
7	Program (s) in which the course is offered:	Critical care nursing
8	Language of teaching the course:	English
9	Location of teaching the course:	Faculty of Nursing
10	Prepared By:	Prof.
11	Date of Approval	2022

2. Course Description:

The course focuses on understanding and management of Arterial Lines; Central venous Lines; Pulmonary Artery Catheters, Pulse Oximetry SpO₂; Capnography - EtCO₂, intercostal catheters & Underwater Sealed Drainage. Defibrillation: Manual External & Automated external defibrillation (AED), cardiac monitors, ventilators (SIMV,CMV, weaning from ventilator), continuous positive airway pressure (CPAP), bi-level positive airway pressure (BiPAP), infusion pumps, syringe pumps, , intra-aortic balloon therapy, heart lung machine, heart mate, pulse contour cardiac output (PICCO), active humidifiers, Baer Hugger & blood warmer, cell saver-autologous blood recovery system, Intracranial pressure monitoring, pacemakers and ICD, prisma dialysis machine , extracorporeal membrane oxygenation (ECMO) and plasmapheresis.

III. Intended learning outcomes of the course (ILCOs) and their alignment to Program Intended learning outcomes (PILOs)

ILCOs	PILOs
1. Understanding and management of Arterial and Central Lines, Pulse Oximetry SpO ₂ and Capnography	A1
2. Understanding and management of Infusion, Underwater Sealed Drainage and Hemodynamic monitoring Defibrillation, Baer Hugger & Intracranial pressure monitoring	A1
3. Interpretation and management of Basics of ECG	B2
4. Explain when mechanical ventilation is needed and how the ventilator modes and settings are determined.	A4
5. Recognize components and normal values of the conduction system and	B1

the related PQRST of the ECG tracing and hemodynamic monitoring.	
6. Differentiate normal and abnormal values for ABG analysis; respiratory acidosis, respiratory alkalosis, metabolic acidosis and metabolic alkalosis	B4
7. Apply leads for cardiac monitoring, interpret and monitor cardiac rhythms	C2
8. Monitor hemodynamic status, and recognize signs and symptoms of hemodynamic instability	C2
9. Manage patients requiring 12-lead ECG, arterial catheter, cardiac catheterization, cardioversion, central venous pressure monitoring, defibrillation and invasive hemodynamic monitoring.	C4
10. Apply pulmonary therapeutic interventions related to mechanical ventilation such as airway clearance, intubation, weaning, extubation, respiratory monitoring devices, therapeutic gases, thoracentesis and tracheostomy with mechanical ventilation.	C2

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Understanding and management of Arterial and Central Lines, Pulse Oximetry SpO2 and Capnography	Lecture Discussion	Essay type Short answer Objective type
a2. Understanding and management of Infusion, Underwater Sealed Drainage and Hemodynamic monitoring Defibrillation, Baer Hugger & amp, Intracranial pressure monitoring	Lecture Discussion	Essay type Short answer Objective type
a3. Explain when mechanical ventilation is needed and how the ventilator modes and settings are determined.	Lecture Discussion	Essay type Short answer Objective type

(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Interpretation and management of Basics of ECG	Lecture Discussion Demonstration	Short answer Objective type
b2. Recognize components and normal values of the conduction system and the related PQRST of the ECG tracing	Lecture Discussion Demonstration	Short answer Objective type

and hemodynamic monitoring.		
b3. Differentiate normal and abnormal values for ABG analysis; respiratory acidosis, respiratory alkalosis, metabolic acidosis and metabolic alkalosis	Lecture Discussion Demonstration	Short answer Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Apply leads for cardiac monitoring, interpret and monitor cardiac rhythms	Lecture Discussion Demonstration	Short answer Objective type
c2. Monitor hemodynamic status, and recognize signs and symptoms of hemodynamic instability	Lecture Discussion Demonstration	Short answer Objective type
c3. Manage patients requiring 12-lead ECG, arterial catheter, cardiac catheterization, cardioversion, central venous pressure monitoring, defibrillation and invasive hemodynamic monitoring.	Lecture Discussion Demonstration	Short answer Objective type
c4. Apply pulmonary therapeutic interventions related to mechanical ventilation such as airway clearance, intubation, weaning, extubation, respiratory monitoring devices, therapeutic gases, thoracentesis and tracheostomy with mechanical ventilation.	Lecture Discussion Demonstration	Short answer Objective type

(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
Not applicable	-	-

3. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	No. of Weeks	Contact hours	Learning Outcomes
1	Arterial and Central Lines	<ul style="list-style-type: none"> • Arterial Lines • Central venous Lines • Pulmonary Artery Catheters 	1	2	a1,a4,b2
2	Pulse Oximetry SpO2 Capnography	<ul style="list-style-type: none"> • Pulse Oximetry SpO2 • Capnography: EtCO2, intercostal catheters & 	1	2	a1,a4,b2
3	Infusion	<ul style="list-style-type: none"> • Infusion pumps • syringe pumps • intra-aortic balloon therapy • heart lung machine, heart mate • pulse contour cardiac output (PICCO) • active humidifiers 	2	4	a1,a4,b2
4	Underwater Sealed Drainage.	<ul style="list-style-type: none"> • Underwater Sealed Drainage. 	1	2	a1,a4,b2
5	Hemodynamic monitoring	<ul style="list-style-type: none"> • Components, normal values, how values are obtained or calculated • care of the patient with hemodynamic monitoring • Interpreting hemodynamic values 	2	4	a1,a4,b2
6	Midterm exam		1	2	a1,a4,b2
7	Cardiac Dysrhythmias	<ul style="list-style-type: none"> • Review of Conduction System • Basics of ECG Interpretation • Dysrhythmia: • The Sinus Rhythms(Normal Sinus Rhythm, Sinus Tachycardia, and Sinus 	3	6	a1,a4,b2

		Bradycardia and Sinus Arrhythmia), The Atrial Rhythms (Wandering Pacemaker, Atrial Tachycardia, Atrial Fibrillation and Atrial Flutter), The Junctional Rhythms (Junctional Escape Rhythm, Accelerated Junctional Rhythm and Junctional Tachycardia), The Heart Blocks (First Degree, Second Degree Type I and II and Third Degree Heart Block), The Ventricular Rhythms(Ventricular Tachycardia, Ventricular Fibrillation and Idioventricular Rhythm).			
8	Defibrillation	<ul style="list-style-type: none"> • Defibrillation: Manual External & • Automated external defibrillation (AED) • Cardiac monitors 	1	2	a1,a4,b2
9	Baer Hugger & amp	<ul style="list-style-type: none"> • Baer Hugger & blood warmer • cell saver-autologous blood recovery system 	1	2	a1,a4,b2
10	Intracranial pressure monitoring	<ul style="list-style-type: none"> • Intracranial pressure monitoring • prisma dialysis machine • extracorporeal membrane oxygenation (ECMO) and plasmapheresis. 	1	2	a1,a4,b2
11	Mechanical Ventilation	<ul style="list-style-type: none"> • Principles of mechanical ventilation • Ventilator modes and 	2	4	a1,a4,b2

		settings <ul style="list-style-type: none"> • Ventilator changes effect on blood gases/ Weaning • Complications of ventilator • ABG analysis: <ul style="list-style-type: none"> ○ Oxygenation, devices ○ Review ABGs ○ Failure, exacerbations • ARDS, arrest • SIMV, CMV, weaning from ventilator • Continuous positive airway pressure (CPAP) • Bi-level positive airway pressure (BiPAP) 			
12	Final exam		1	2	a1,a4,b2
Number of Weeks /and Units Per Semester			16	32	

B - Clinical Aspect:				
Order	Tasks/ Experiments	Number of Weeks	Contact hours	Learning Outcomes
1	<ul style="list-style-type: none"> • Arterial Lines • Central venous Lines • Pulmonary Artery Catheters 	1-2	6	c2
2	<ul style="list-style-type: none"> • Pulse Oximetry SpO2 • Capnography: EtCO2, intercostal catheters & 	3-4	6	c2
3	<ul style="list-style-type: none"> • Infusion 	5	3	c2
4	<ul style="list-style-type: none"> • Underwater Sealed Drainage. 	6	3	c2
5	Hemodynamic monitoring: <ul style="list-style-type: none"> • Monitor hemodynamic status 	7-8	6	c2

	<ul style="list-style-type: none"> • Interpreting hemodynamic • Nursing care of the patient 			
6	<p>Dysrhythmias: Apply leads for cardiac monitoring, interpret and monitor cardiac rhythms Manage patients requiring:</p> <ul style="list-style-type: none"> • 12-lead ECG • arterial catheter • cardiac catheterization • cardioversion • central venous pressure monitoring • Defibrillation and invasive hemodynamic monitoring. 	9-11	12	c4
7	Defibrillation	12	3	c2
8	Baer Hugger & amp	13		c2
9	Intracranial pressure monitoring	14		c2
10	<p>Mechanical ventilation: Apply pulmonary therapeutic interventions related to mechanical ventilation such as:</p> <ul style="list-style-type: none"> • airway clearance • intubation • weaning • Extubation • respiratory monitoring devices • therapeutic gases • thoracentesis • tracheostomy 	15-16	6	c2
11	Final clinical exam	17	3	c2,c4.c5
Number of Weeks /and Units Per Semester		17	51	.

I. Teaching strategies of the course:

1. Lecture Discussion
2. Presentation
3. Role playing
4. Case study reviews

5. Assignments
6. Activities

4. Teaching strategies of the course:

1. Lecture - Discussion
2. Demonstration

5. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	Write about EEG	a1,a4,b2	5-10	10

6. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Student assignment	5th - 12th week	10	10 %	a1,a4,b2
2	Presentation	4 st - 14 th week	20	20 %	a1,a4,b2
3	Mid-term exam	7th or 8th week	20	20%	a1,a4,b2
4	Final exam	16th-17th week	50	50 %	a1,a4,b2
Total Theory Weight			100	100%	

Clinical part

Assessment	Type of Assessment Tasks	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Attendance and Attitude	14 th week	10	10%	a5,c2,c3,c4,c5
2	Semester work	1 st -14 th week	50	10%	a5,c2,c3,c4,c5
3	Final exam (theory/oral)	15 th week	15	50%	a5,c2,c3,c4,c5
4	Final exam (practical)	16 th -17 th week	25	30%	a5,c2,c3,c4,c5
Total Practical Weight			100	100%	

7. Learning Resources:	
1- Required Textbook(s)	
	1. Joseph M.C., Vetta R.W. , Taylor R.K. Critical care Medicine . 2 nd .2011
2- Essential References.	
	1. Shoemaker .woliam C. et al Text book of critical care. W B Saunders Company Philadelphia 2007.
3- Electronic Materials and Web Sites etc.	
	http://www.google.com

7. Course Policies:	
1.	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5.	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6.	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

Course Plan (Syllabus)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Prof.	Office Hours					
Location & Telephone No.		SAT	SUN	MON	TUE	WED	THU
E-mail	@hotmail.com		x				

II. Course Identification and General Information:						
1.	Course Title:	Medical Technology				
2.	Course Number & Code:	MCCN01				
3.	Credit hours: 3	C.H				Total
		Th.	Seminar	Pr.	F. Tr.	

Courses specification 1st year-1st semester

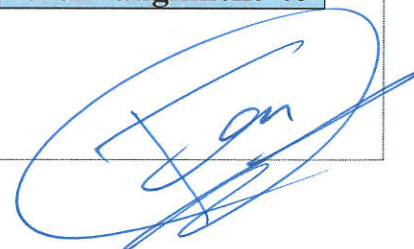
Course Specification

I. Course Identification and General Information:						
1	Course Title:	SPSS Statistics				
2	Course Code &Number:	MNSG01				
3	Credit hours: 3	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		2	-	1	-	3
4	Study level/ semester at which this course is offered:	First year/First semester				
5	Pre –requisite:	-				
6	Co –requisite :	-				
7	Program (s) in which the course is offered:	Critical care nursing				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Nursing				
10	Prepared By:	Professor. Nabil Al-Rabeei				
11	Date of Approval	2022				

II. Course Description:

This course logically guides students through the fundamentals of using SPSS and is structured so as to provide effective training in the 4 stages of a typical data analysis process-data definition and input, data modification, data analysis and data presentation. To learn how to import data into SPSS and set it up ready for further analysis.

III. Intended learning outcomes of the course (ILCOs) and their alignment to



Program Intended learning outcomes (PILOs)		
ILCOs	PILOs	
1. Identify concepts and principles of data entry, analysis, presentation and interpretation.	A1	
2. Summarize data through the appropriate use of tables, graphs, and descriptive statistics.	D4	
3. Select appropriate statistical methods for testing research hypotheses and answering research questions.	B1	
4. Apply appropriate measurements and data analysis techniques by SPSS program.	C2	
(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Identify concepts and principles of data entry, analysis, presentation and interpretation.	Lecture Discussion Demonstration	Short answers Objective type
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Select appropriate statistical methods for testing research hypotheses and answering research questions.	Lecture Discussion Demonstration	Short answers Objective type

C. Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c1. Apply appropriate measurements and data analysis techniques by SPSS program.	Lecture Student assignment Practice Session	Short answer questions Objective type Practical Exam
(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d1. Summarize data through the appropriate use of tables, graphs, and descriptive statistics.	Lecture Student assignment Practice Session	Short answer questions Objective type Practical Exam

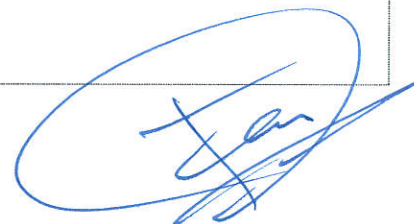
III. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	No. of Weeks	Contact hours	Learning Outcome
1	Feature of the SPSS Program	<ul style="list-style-type: none"> • Introduction to SPSS • Preliminaries: <ul style="list-style-type: none"> ○ Running SPSS ○ Entering SPSS • Three Primary SPSS Windows <ul style="list-style-type: none"> ○ The Data Editor ○ The Output Viewer ○ The Syntax Editor. • Switching Between Windows • Common Window Features: <ul style="list-style-type: none"> ○ Title Bar ○ Menu Bar ○ Toolbar ○ Status Bar ○ • Unique Window Features: <ul style="list-style-type: none"> • Data Editor ○ Data View ○ Variable View • Output Viewer • Syntax Editor 	1	2	a1
2	The Menus – Overview	<ul style="list-style-type: none"> • Common Menus • Unique Menus • The Menus – Up Close <ul style="list-style-type: none"> ○ File Menu ○ Edit Menu ○ View Menu ○ Data Menu ○ Transform Menu ○ Analyze, Window, 	1	2	a1,b1

		<ul style="list-style-type: none"> ○ and Add-Ons Menus ○ Graphs Menu ○ Utilities Menu ○ Help Menu ○ Insert Menu ○ Format Menu ○ Run Menu 			
3	Data File Preparation	<ul style="list-style-type: none"> ● Data Entry ● Defining Variables ● Practice Data Entry 	1	2	a1,d1
4	Steps of testing statistical hypothesis	<ul style="list-style-type: none"> ● State statistical hypothesis ● Chose the appropriate statistical test ● Specify the level of significance ● Conduct the statistical tests ● Decide to reject or accept hypothesis 	1	2	a1,d1
5	Descriptive Statistics	<ul style="list-style-type: none"> ● Descriptive ● Frequency ● Crosstabs 	1	2	a1,d1
6	Parametric test	<ul style="list-style-type: none"> ● Independent Samples T-Test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output ○ Interpretation 	1	2	a1,b1,d1
7	Midterm exam		1	2	a1,b1,d1
8	Nonparametric Tests	<ul style="list-style-type: none"> ● Mann-Whitney test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output ○ Interpretation 	1	2	a1,b1,d1

9	Parametric test	<ul style="list-style-type: none"> • Paired Samples T-Test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output • Interpretation 	1	2	a1,b1,d1
10	Nonparametric Tests	<ul style="list-style-type: none"> • Wilcoxon signed rank test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output • Interpretation 	1	2	a1,b1,d1
11	Parametric test	<ul style="list-style-type: none"> • One-Way ANOVA <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output ○ Interpretation 	1	2	a1,b1,d1
12	Nonparametric Tests	<ul style="list-style-type: none"> • Kruskal-Wallis test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output • Interpretation 	1	2	a1,b1,d1
13	Parametric test	<ul style="list-style-type: none"> • One-Way Repeated measure ANOVA <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output ○ Interpretation 	1	2	a1,b1,d1
14	Nonparametric Tests	<ul style="list-style-type: none"> • Friedman test <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output • Interpretation 	1	2	a1,b1,d1



15	Nonparametric Tests: relationship	<ul style="list-style-type: none"> • Chi-Squared independent for <ul style="list-style-type: none"> ○ Overview ○ Assumptions ○ Running Procedure ○ Reading Output ○ Interpretation 	1	2	a1,b1,d1
16	Final exam		1	2	a1,b1,d1
Number of Weeks /and Units Per Semester			16	32	

B – Practical Aspect:

Order	Tasks/ Experiments	Number of Weeks	Contact hours	Learning Outcomes
1	<ul style="list-style-type: none"> • Feature of the SPSS Program <ul style="list-style-type: none"> ○ Running SPSS ○ Entering SPSS ○ Three Primary SPSS Windows ○ Switching Between Windows 	1	1	d1
2	<ul style="list-style-type: none"> • Working with data <ul style="list-style-type: none"> ○ Opening SPSS Files ○ Saving SPSS Files ○ Exporting and Importing Data ○ Merging Two Data Files ○ Printing 	1	1	c1,d1
3	<ul style="list-style-type: none"> • Data File Preparation 	2	2	c1,d1
4	<ul style="list-style-type: none"> • Steps of testing statistical hypothesis <ul style="list-style-type: none"> ○ Normality distribution 	1	1	c1,d1
5	<ul style="list-style-type: none"> • Descriptive Statistics <ul style="list-style-type: none"> ○ Descriptive ○ Frequency ○ Crosstabs 	1	1	c1,d1
6	<ul style="list-style-type: none"> • Independent Samples T-Test <ul style="list-style-type: none"> ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
7	Midterm exam	1	1	c1,d1
8	<ul style="list-style-type: none"> • Mann-Whitney test 	1	1	c1,d1

	<ul style="list-style-type: none"> ○ Running Procedure ○ Reading Output ○ Interpretation 			
9	<ul style="list-style-type: none"> ● Paired Samples T-Test ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
10	<ul style="list-style-type: none"> ● Wilcoxon signed rank test ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
11	<ul style="list-style-type: none"> ▪ One-Way ANOVA ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
12	<ul style="list-style-type: none"> ● Kruskal-Wallis test. ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
13	<ul style="list-style-type: none"> ● One-Way Repeated measure ANOVA ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
14	<ul style="list-style-type: none"> ● Chi-Squared of Independence ○ Running Procedure ○ Reading Output ○ Interpretation 	1	1	c1,d1
15	Final exam	1	1	c1,d1
Number of Weeks /and Units Per Semester		16	32	

IV. Teaching strategies of the course:

1. Lecture - Discussion
2. Demonstration
3. Student assignment
4. Practical session
5. Presentation:
 - McNemar test
 - Cochran Q test
 - One sample t-test
 - One sample chi-square test

V. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	One assignment for each statistical test	a1, b1, d1	2-14	20

VI. Schedule of Assessment Tasks for Students during the Semester: Theoretical part and Practical part

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Presentation	4th and 12th week	10	10%	a1 , b1, d1
2	Assignments	5th and 12th week	20	20%	a1 , b1, d1
3	Mid-term exam	7th or 8th week	20	20%	a1 , b1, d1
4	Final exam	16th-17th week	50	50 %	a1 , b1, d1
Total Theory Weight			100	100%	

VIII. Learning Resources:

1- Required Textbook(s) (maximum two).

1. SPSS Programming and Data Management. A Guide for SPSS and SAS® Users, 3rd ed. Raynald Levesque and SPSS Inc, 2001.

2- Essential References.

1. An Introduction to Biostatistics: A manual for students in Health Sciences: P.S.S. Sundar Rao, J. Richard Prentice Hall , New Delhi, 2005.
2. Bio-Statistics: A foundation for Analysis in the Health Sciences: Daniel, W.W., John Wiley and Pub., Canada, 2006.

	3. Handbook of Statistics: Krishnaiah, P.K. Rao, C.R. (ed), Elsevier Science Pub. Netherlands, 2011.
3- Electronic Materials and Web Sites etc.	
	www.google.com


IX. Course Policies:	
1.	Class Attendance: At least 75 % of the course hours should be attended by the student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
3.	Exam Attendance/Punctuality: Any student who is late for more than 30 minutes from starting the exam will not be allowed to attend the exam and will be considered absent.
4.	Assignments & Projects: Assignments and projects will be assessed individually unless the teacher request for group work
5.	Cheating: Cheating by any means will cause the student failure and he/she must re-study the course
6.	Plagiarism: Plagiarism by any means will cause the student failure in the course. Other disciplinary procedures will be according to the college rules.

Course Plan (Syllabus)

I. Information about Faculty Member Responsible for the Course:							
Name of Faculty Member	Prof. Nabil Ahmed Al-Rabeei	Office Hours					
Location & Telephone No.	734699333	SAT	SUN	MON	TUE	WED	THU
E-mail	nabilalraabeei@hotmail.com		x				

II. Course Identification and General Information:					
1.	Course Title:	SPSS Statistics			
2.	Course Number & Code:	MNSG01			
3.	Credit hours: 3	C.H			Total
		Th.	Seminar	Pr.	F. Tr.
		2	-	1	3
4.	Study level/year at which this course is offered:	First year/First semester			
5.	Pre –requisite:	--			
6.	Co –requisite :	--			
7.	Program (s) in which the course is offered	Critical care nursing			
8.	Language of teaching the course:	English			
9.	System of Study:	Semester system			
10.	Mode of delivery:	Full time			
11.	Location of teaching the course:	Faculty of Nursing			

III. Course Description:	
<p>This course logically guides students through the fundamentals of using SPSS and is structured so as to provide effective training in the 4 stages of a typical data analysis process-data definition and input, data modification, data analysis and data presentation. To learn how to import data into SPSS and set it up ready for further analysis.</p>	



IV. Intended learning outcomes (ILOs) of the course:

1. Identify concepts and principles of data entry, analysis, presentation and interpretation.
2. Summarize data through the appropriate use of tables, graphs, and descriptive statistics.
3. Select and apply appropriate statistical methods for testing research hypotheses and answering research questions.

V. Course Content:

Distribution of Semester Weekly Plan of Course Topics/Items and Activities.

A – Theoretical Aspect:

Order	Topics List	Week Due	Contact Hours
1	Feature of the SPSS Program	1	2
2	Common Window Features	2	2
3	The Menus – Overview	3	2
4	Data File Preparation	4	2
5	Steps of testing statistical hypothesis	5	2
6	Descriptive Statistics	6	2
7	Midterm exam	7	2
8	Parametric test: Independent t-test	8	2
9	Non-Parametric test: Mann-Whitney U test	9	2
10	Parametric test: Paired t-test	10	2
11	Non-Parametric test: Wilcoxon signed rank test	11	2
12	Parametric Tests: One-way-ANOVA	12	2
13	Nonparametric Test: Kruskal-Wallis test	13	2
14	Non-Parametric test: Friedman test	14	2
15	Relationship: Chi-square test	15	2
16	Final exam	16	2
Number of Weeks /and Units Per Semester		16	32

B- Practical Aspect:			
Order	Topics List	Week Due	Contact Hours
1	Feature of the SPSS Program	1	1
2	Working with data	2	1
3	Data File Preparation	3-4	2
4	Testing Normality	5	1
5	Descriptive Statistics	6	1
6	Independent Samples T-Test	7	1
7	Midterm Exam	8	1
8	Mann-Whitney U test	9	1
9	Paired t-test	10	1
10	Wilcoxon signed rank test	11	1
11	One-way-ANOVA	12	1
12	Kruskal-Wallis test	13	1
13	Friedman test	14	1
14	Chi-esquire test	15	1
15	Final exam	16	1
Number of Weeks /and Units Per Semester		16	32

VI. Teaching strategies of the course:
1. Demonstration
2. Student assignments
3. Practical session
4. Presentation: <ul style="list-style-type: none"> • McNemar test • Cochran Q test • One sample t-test • One sample chi-square test

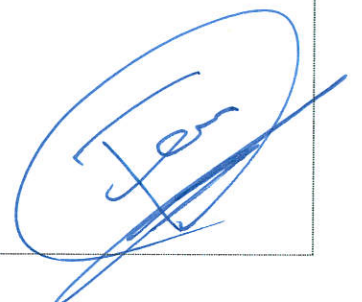
VII. Assignments:				
No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	One assignment for each statistical test	a1 , b1, d1	2-14	20

VIII. Schedule of Assessment Tasks for Students during the Semester: Theoretical part and Practical part					
No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Presentation	4th and 12th week	10	10%	a1, b1,c1,d1
2	Assignments	5th and 12th week	20	20%	a1, b1,c1,d1
3	Mid-term exam	7th or 8th week	20	20%	a1, b1,c1,d1
4	Final exam	16th-17th week	50	50 %	a1 , b1,c1, d1
Total Theory Weight			100	100%	

IX. Learning Resources:	
1- Required Textbook(s)	
	1. SPSS Programming and Data Management. A Guide for SPSS and SAS® Users, 3rd ed. Raynald Levesque and SPSS Inc, 2001
2- Essential References.	
	1. An Introduction to Biostatistics: A manual for students in Health Sciences: P.S.S. Sundar Rao, J. Richard Prentice Hall , New Delhi, 2005. 2. Bio-Statistics: A foundation for Analysis in the Health Sciences: Daniel, W.W., John Wiley and Pub., Canada, 2006. 3. Handbook of Statistics: Krishnaiah, P.K., C.R. (ed), Elsevier Science 2011.
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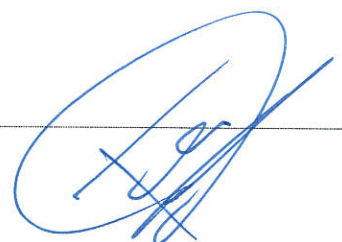
Course Specification

II. Course Identification and General Information:						
1	Course Title:	Critical Care Nursing III				
2	Course Code & Number:	MCCN04				
3	Credit hours: 4	C.H				TOTAL
		Th.	Seminar	Pr	Tr.	
		2	-	-	2	4
4	Study level/ semester at which this course is offered:	First year/ second semester				
5	Pre –requisite:					
6	Co –requisite :	-				
7	Program (s) in which the course is offered:	Critical care nursing				
8	Language of teaching the course:	English				
9	Location of teaching the course:	Faculty of Nursing				
10	Prepared By:	Dr. Abdulhameed Ali Lotf Al-Thifani				
11	Date of Approval	2022				

III. Course Description:

This course is a continuation of critical care nursing. The course is designed to assist nurses in advancing their expertise and knowledge in the field of critical care nursing. Nurses are able to develop advanced skills in caring for critically ill patients using nursing process. It enables them to function as critical care nurse specialist. It further enables them to function as educator, manager practitioner, and researcher in the field of Critical Care Nursing. The course covers two major concepts -neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma. The course deals with the presentation, management, and nursing intervention of patients with oncology. Toxic ingestion and antidote discussed.

III. Intended learning outcomes of the course (ILCOs) and their alignment to



Program Intended learning outcomes (PILOs)

ILCOs	PILOs
1. Identify the terms related to comfort and sedation, ways to assess the patient for pain, discomfort, confusion, agitation and anxiety and the common pharmacologic and non-pharmacologic management.	A1
2. State the causes, clinical symptoms and management of delirium and dementia.	A4
3. Analyze benefits and challenges of parental and enteral nutrition and ways to assess and monitor effectiveness of nutritional supplementation	B1
4. Describe the classifications and the types of shock found in each class, the causes, the pathophysiology, progression, clinical presentation, diagnostic lab results and management of each shock state.	A4
5. Describe nursing care plan for patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma. Interpret how vasoactive medications are used to improve blood pressure, cardiac output, contractility and reduce SVR and calculate accurate dosages of vasoactive medications and their infusion rates.	A5 B1 A3
6. Define palliative care and end of life care and ways to support patients and their families during and after bad news is given and the management of the dying patient in the ICU.	D5
7. Discuss the ethical and legal issues that arise when making end of life decisions.	A4
8. Describe the classification of burns, primary and secondary assessment of burn patient and a trauma patient using ABCDE and management of burn and trauma patients.	
9. Apply nursing care for critically ill patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	C5

(A) Alignment Course Intended Learning Outcomes of Knowledge and Understanding to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
a1. Identify the terms related to comfort and sedation, ways to assess the	Lecture Discussion – critical thinking	Essay type Short answer

patient for pain, discomfort, confusion, agitation and anxiety and the common pharmacologic and non-pharmacologic management.	Role playing and case study reviews	Objective type
a3. Define palliative care and end of life care and ways to support patients and their families during and after bad news is given and the management of the dying patient in the ICU.	Lecture Discussion – critical thinking Role playing and case study reviews	Essay type Short answer Objective type
a4. State the causes, clinical symptoms and management of delirium and dementia.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a4. Describe the classifications and the types of shock found in each class, the causes, the pathophysiology, progression, clinical presentation, diagnostic lab results and management of each shock state.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a4. Describe the classification of burns, primary and secondary assessment of burn patient and a trauma patient using ABCDE and management of burn and trauma patients.	Lecture Discussion – critical thinking Role playing and case study reviews	Short answer Objective type
a5. Describe nursing care plan for patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	Lecture Discussion –	Short answer Objective type
(B) Alignment Course Intended Learning Outcomes of Intellectual Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
b1. Interpret how vasoactive medications are used to improve blood pressure, cardiac output, contractility and reduce SVR and Calculate accurate dosages of vasoactive medications and their infusion rates.	Lecture Discussion – critical thinking	Short answer Objective type
b1. Analyze benefits and challenges of	Lecture Discussion –	Short answer

parental and enteral nutrition and ways to assess and monitor effectiveness of nutritional supplementation.	critical thinking	Objective type
b1. Recognize components and normal values of the conduction system and the related PQRST of the ECG tracing and hemodynamic monitoring.	Lecture Discussion – critical thinking Case study reviews	Short answer Objective type
b1. Explain when mechanical ventilation is needed and how the ventilator modes and settings are determined.	Lecture Discussion – critical thinking	Short answer Objective type
b4. Differentiate normal and abnormal values for ABG analysis; respiratory acidosis, respiratory alkalosis, metabolic acidosis and metabolic alkalosis	Lecture Discussion – critical thinking Case study reviews	Short answer Objective type

(C) Alignment Course Intended Learning Outcomes of Professional and Practical Skills to Teaching Strategies and Assessment Strategies:

Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
c2. Apply leads for cardiac monitoring, interpret and monitor cardiac rhythms	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c2. Monitor hemodynamic status, and recognize signs and symptoms of hemodynamic instability	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c2. Apply pulmonary therapeutic interventions related to mechanical ventilation such as airway clearance, intubation, weaning, extubation, respiratory monitoring devices, therapeutic gases, thoracentesis and	Clinical session Presentation Role playing Case study reviews Log book & Assignments	Short answer Objective type Clinical performance Clinical exam

tracheostomy with mechanical ventilation.	Activities	
c4. Manage patients requiring 12-lead ECG, arterial catheter, cardiac catheterization, cardioversion, central venous pressure monitoring, defibrillation and invasive hemodynamic monitoring.	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
c5. Apply nursing care for critically ill patient with neurological changes and several systemic changes that include burns, hematology, oncology, immunology and trauma.	Clinical session Presentation Role playing Case study reviews Log book & Assignments Activities	Short answer Objective type Clinical performance Clinical exam
(D) Alignment Course Intended Learning Outcomes of General and Transferable Skills to Teaching Strategies and Assessment Strategies:		
Course Intended Learning Outcomes	Teaching strategies	Assessment Strategies
d5. Discuss the ethical and legal issues that arise when making end of life decisions.	Lecture Discussion – critical thinking	Short answer Objective type

IV. Course Content:

A – Theoretical Aspect:

Order	Units/Topics List	Sub Topics List	No. of Weeks	Contact hours	Learning Outcomes
1	Comfort and Sedation	<ul style="list-style-type: none"> • Definition the terms: pain, discomfort, confusion, agitation, anxiety, comfort and sedation scales • Delirium, Dementia signs & symptoms • Confusion • Pharm and non-pharm therapies 	1	2	a1,a4
2	Nutritional	<ul style="list-style-type: none"> • Assessing nutritional status 			

	Support	<ul style="list-style-type: none"> • Enteral and Parenteral nutrition • Monitoring nutritional status and determining if needs are met • Nursing care of patient with nutritional disorders 	1	2	b1,a5
3	Shock States: Distributive, Hypovolemic, Cardiogenic & Obstructive	<ul style="list-style-type: none"> • Etiology & Pathophysiology • Clinical Signs & Symptoms, including hemodynamics • Management – Pharmacologic & Non-pharmacologic • Evaluation of Treatment Plan • Goals of Care • Nursing Care for patients in shock states 	2	4	a4,a5
4	Neurological disorders	<ul style="list-style-type: none"> • Nursing management including advanced neurological assessment, common diagnostics, pharmacology and neurological emergencies for the following topics: <ul style="list-style-type: none"> ○ Stroke ○ cerebrovascular accident ○ Acute spinal cord injury ○ Neurosurgery ○ Head injury ○ seizure disorders ○ Guillein Barre-syndrome ○ myasthenia gravis ○ Coma ○ encephalopathy 	4	8	a4,a5,b1,d3

		<ul style="list-style-type: none"> Management modalities: Assessment of intracranial pressure, management of intracranial hypertension, craniotomy, problems related to neurological disorders: thermo regulation, Unconsciousness, herniated disc syndrome. 			
5	Midterm exam		1	2	a1,a4,a5, b1
6	Hematology, oncology and immune diseases.	<ul style="list-style-type: none"> General overview of the changes in red blood cells (RBCs) Immune activity and coagulation function. Assessment and management of specific lesions are discussed. Presentation, management, and nursing intervention of patients with oncology. Toxic ingestion and antidote discussed. 	2	4	b1,b4
7	Trauma-related Injuries	<ul style="list-style-type: none"> Traumatic Injury – Penetrating & Blunt Management of patients with trauma. Nursing care of trauma patients 	1	2	a4,a5
8	Burns	<ul style="list-style-type: none"> Classification, pathophysiology, clinical features, evaluation, diagnosis, prognosis, treatment of burns. Fluid and electrolyte therapy - calculation of fluids and its management 	2	4	a1,a4,a5, b1

		<ul style="list-style-type: none"> • Pain, Wound care • infection control • prevention and management of complications burns • grafts and flaps, reconstructive surgery and rehabilitation • Nursing care of patients with burn 			
9	End of Life Care	<ul style="list-style-type: none"> • Breaking Bad News to Patients and/or their families • Managing the dying patient in the ICU • Ethical and Legal Issues at the End of L 	1	2	a3,a5,d5
10	Final exam		1	2	a1, a3,a4, a5,b1,b4, d5
Number of Weeks /and Units Per Semester			16	32	

B - Clinical Aspect:

Order	Tasks/ Experiments	Number of Weeks	Contact hours	Learning Outcomes
1	Nursing care of patient with nutritional disorders	1-2	6	c4
2	Nursing care of patient with shock states: Distributive, hypovolemic, Cardiogenic & Obstructive	3-4	6	c2,c4.c5
3	Nursing care of neurological disorders	5-8	12	c2,c4.c5
4	Nursing care of patient with hematology, oncology and immune diseases.	9-10	6	c2,c4.c5
5	Nursing care of trauma-related injuries	11-12	6	c2,c4.c5
6	Nursing care of burn patients	13-14	6	c2,c4.c5
7	Nursing care of patients with end of Life	15	3	c2,c4.c5
8	Final clinical exam	16	3	c2,c4.c5
Number of Weeks /and Units Per Semester		16	48	.

V. Assignments:

No	Assignments	Aligned CILOs(symbols)	Week Due	Mark
1	<ul style="list-style-type: none"> Principles, modes and settings of mechanical ventilation Complications of ventilator 	b1,b4	5-10	10

VI. Schedule of Assessment Tasks for Students During the Semester

No.	Assessment Method	Week Due	Mark	Proportion of Final Assessment	Aligned Course Learning Outcomes
1	Student assignment	5th - 12th week	10	10 %	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
2	Presentation	4 st - 14 th week	20	20 %	a1,a3,a4,a5,b1, b4,d5,c2,c4.c5
3	Mid-term exam	7th or 8th week	20	20%	c2,c4.c5
4	Final exam	16th-17th week	50	50 %	a1,a3,a4,a5,b1, b4,d5
Total Theory Weight			100	100%	

VII. Learning Resources:

1- Required Textbook(s)

- Sole, Klein & Moseley.(2013). Introduction to Critical Care Nursing (6th Edition). US: Saunders Goldman, M. (2007).
- Pocket Guide to the Operating Room (3rd Edition). Philadelphia: Davis. Carlson, K. (2009).
- AACN Advanced Critical Care Nursing. Saunders. Chapter 14, pages 297-318.

2- Essential References.

- Siegel, M. (2009).End-of-Life Decision Making in the ICU. Clinical Chest Medicine, 30, 181-194

3- Electronic Materials and Web Sites etc.

<http://www.google.com>

VIII. Course Policies:

- Class Attendance:** At least 75 % of the course hours should be attended by the

	student. Otherwise, he/she will not be allowed to attend the final exam
2.	Tardy: any student who is late for more than 15 minutes from starting the lecture will not be allowed to attend the lecture and will be considered absent.
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